for Anti-Terrorist/Force Protection

UFC 4-010-01
8 October 2003

UNIFIED FACILITIES CRITERIA (UFC)

DoD MINIMUM ANTITERRORISM STANDARDS FOR BUILDINGS

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UFC 4-010-02
8 October 2003

ED FACILITIES CRITERIA (UFC)

MINIMUM ANTITERRORISM
ANDOFF DISTANCES FOR
BUILDINGS

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Why Antiterrorism Standards?

Force Protection - CJCS Perspective

"MILCON must incorporate AT / FP standards now, otherwise will get harder to fix in the future. In older facilities we have to balance cost savings against saving lives"

GEN Henry H. Shelton
Chairman, Joint Chiefs of Staff

"The goal and direction from CJCS is enforceable standards."

VADM S. A. Fry
Director for Operations, The Joint Staff

Unified Facilities Criteria

- **Mandated under Military Construction Appropriations Act of 1998**
- **Planning, design, construction, operations, & maintenance criteria**
- **Living documents (periodically reviewed and updated)**
- **Apply to all DoD facilities**
- **Supported by Unified Facilities Guide Specifications**

The DoD Security Engineering Manual Series

- **Minimum Standards**
  - **UFC 4-010-01: DoD Minimum Antiterrorism Standards for Buildings**
  - **UFC 4-010-02: DoD Minimum Antiterrorism Standoff Distances for Buildings**
  - **Combatant Command Standards**
- **General support manuals**
  - **UFC 4-020-01: Security Engineering Facilities Planning Manual (audience is “planners”)**
  - **UFC 4-020-02: Security Engineering Facilities Design Manual (audience is planners, designers, and security people)**

Unified Facility Criteria

- **Apply to all DoD Personnel**

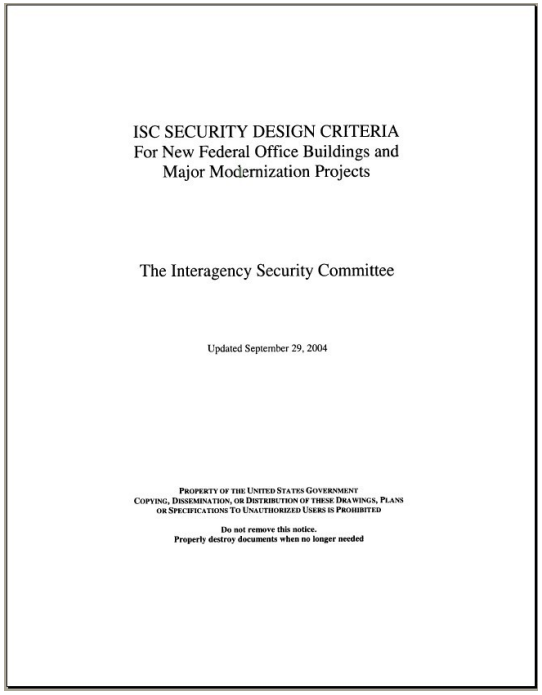
- **Apply to**
  - **MILCON Projects (NAF & O/M)**
  - **Leased Buildings (New & Renewals)**
  - **Host Nation Agreements**
  - **Major Renovations (50% of replacement cost)**
  - **Building Additions**

Unified Facility Criteria (Continued)

- **Exemptions**
  - **Partial Occupancy (less than 25%)**
  - **Family Housing (12 units or less)**
  - **Franchise Food Operations**
  - **Gas Stations**
  - **Recruiting Stations in leased spaces**
  - **See standards for others**

- **Waivers must be granted by DoD Component Heads**

Comparison of DoD and GSA/ISC Standards



ISC SECURITY DESIGN CRITERIA
For New Federal Office Buildings and
Major Modernization Projects

The Interagency Security Committee

Updated September 29, 2004

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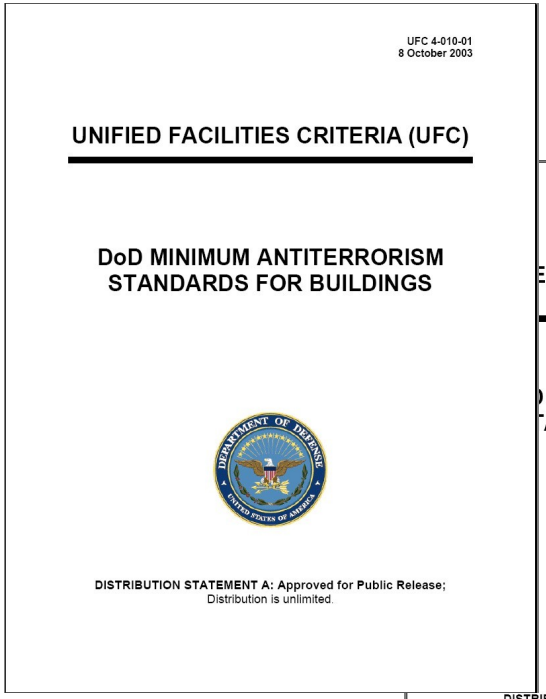

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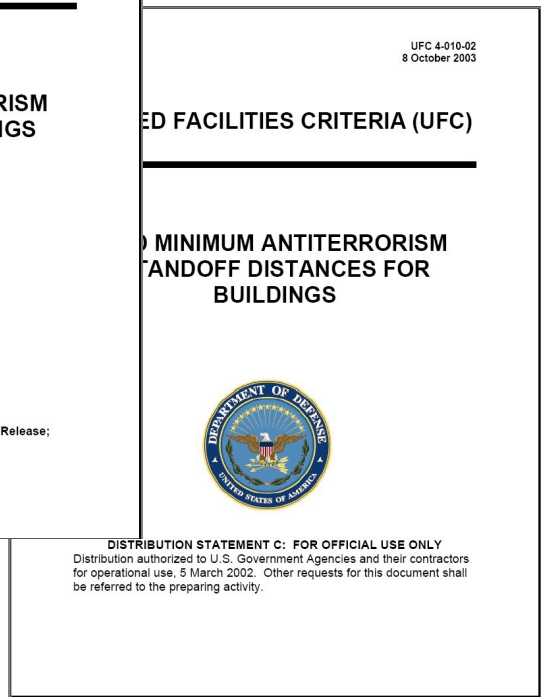

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Applicability

- **ISC/GSA:**
  - **New construction of general purpose office buildings and new or lease construction of courthouses**
  - **Lease-constructed projects submitted to Congress for authorization**
  - **New leases (as of 29 September 2004)**
  - **Existing leased buildings based on risk assessment and where ever feasible**
- **DoD:**
  - **All new inhabited buildings**
  - **Existing inhabited buildings meeting “triggers”**
  - **Inhabited leased buildings subject to “triggers”**

Why not Use Interagency Security Committee Standards?

DoD standards:

Applicability

- **Inhabited: ≥ 11 people and ≥ 1 person per 430 sf**
- **Primary gathering and billeting: ≥ 50 people and ≥ 1 person per 430 sf**

ISC Standards:

Applicability

- **Level I: ≤ 10 people & ≤ 2500 sf**
- **Level II: 11 to 150 people & 2500 – 80,000 sf**
- ***Level III: 151 – 450 people and 80,000 – 150,000 sf***
- ***Level IV: ≥ 450 people and > 150,000 sf***

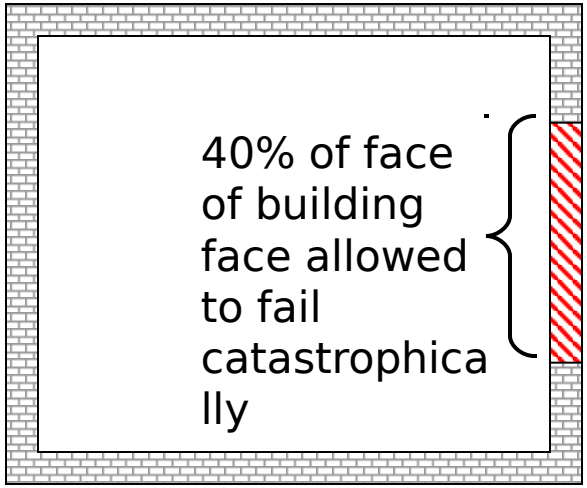
Comparison of DoD and ISC Standards

DoD

ISC

Pressure increases

Design pressure constant



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Comparison of DoD and ISC Standard

Bottom Line:

For DoD: Not acceptable

For ISC: Acceptable

(actually only 40% of windows allowed to fail catastrophically)

Other Standoff Issues

DoD

- **Trash containers (82 ft. or 33 ft.)**
- **Unobstructed Space (33 ft.)**
- **Parking beneath buildings**
  - **Eliminate *or***
  - **Harden with access control**

ISC/GSA

- **Trash Containers : not covered**
- **Unobstructed space: not covered**
- **Parking beneath buildings**
  - **Low: Public w/ID**
  - **Medium – Low: Employees**
  - **Medium: Selected government employees**
  - **Higher: Selected government employees w/ security need**

Structural Issues

DoD

- Progressive collapse: Prevent for > 3 stories
- Unreinforced exterior masonry walls: Prohibited
- Windows: Laminated glass (minimum) with specific performance
- Interior construction: Not addressed
- Exterior doors: Open outwards and provide limited hazard
- Equipment bracing: Brace over 31 lbs.

ISC/GSA

- Progressive collapse: Prevent
- Unreinforced exterior masonry walls: Not addressed
- Windows: Specific performance
- Interior construction:
  - Medium: Harden critical elements w/in 25 ft. of high risk areas
  - Higher: Harden critical elements w/in 25 ft. of high risk areas
- Exterior doors: Design against forced entry (except for Low)
- Equipment bracing: Not addressed

Mechanical and Architectural Issues

- **DoD**
  - **Mailrooms: On building perimeter**
  - **Mailroom ventilation: Separate, dedicated air ventilation system**
  - **Air intakes: Above 3 meters**
  - **Emergency air shutoff: Provide**
  - **Stairwell pressurization: Not addressed**
- **ISC/GSA**
  - **Mailrooms: Away from critical components & use disposal container**
  - **Mailroom ventilation: Not addressed**
  - **Air intakes: At high level**
  - **Emergency air shutoff: Not addressed**
  - **Stairwell pressurization: Pressurize at Medium and High level**

Other Issues

Issue	DoD	ISC/GSA
Utility separation and location	Addressed	Addressed
Mass notification	Required for primary gathering and billeting	Not addressed
Loading dock location	Not addressed	Away from utilities
Fuel storage	Not addressed	Away from high risk areas
Emergency fuel storage	Not addressed	Protect
Fire protection	Not addressed	Addressed
Physical security	Not addressed	Addressed (locks, BMS, CCTV, sensors, etc.)

Conclusion

- **Many requirements are similar**
- **Blast requirements are similar, but there are important differences**
  - **Standoff**
  - **Blast load**
- **Applicability to leased buildings is required for DoD existing buildings and addressed on case by case basis for ISC/GSA based on risk assessment**
- **ISC/GSA addresses physical security, DoD does not**
- **Both provide levels of protection, but with different goals and results in some cases**

Priorities

But we saved a ton of money on construction.